

## DERWENT PUBLICATIONS LTD.

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Piston engine with adjustable stroke - has articulating rod with  
spherical bearings and adjustable slide block

KHARKOV POLY 20.11.81-SU-359733

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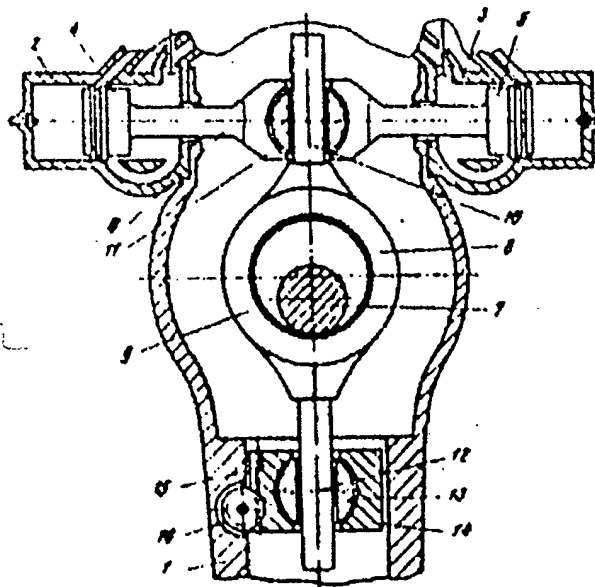
20.11.81 as 359733 (1610AS)

Adjustable stroke opposed piston engine which could be used as compressor, pump or i.c. engine comprised of case (1) with cylinders (2,3), pistons (4,5), piston rod (6) with spherical bearings (11) and crankshaft (7) with eccentric (8). Articulated rod (9) free sliding in spherical bearing (11) and spherical bearing (13) fitted to slide block (14). Slide block (14) has rack (15) with cogwheel (16).

Articulating centre of rod (9) is at the centre of spherical bearing (13). By turning cogwheel (16) vertical position of slide block (14) can be altered, which in turn alters the distance between centres of spherical bearings (11 and 14) and changes piston stroke, increasing or lowering the compression ratio.

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